



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : **Customer No. 26794**
Examiner :
Serial No. :
Filed : Herewith
Inventors : Frank Liu
Title : APPARATUS, METHODS AND
ARTICLES OF MANUFACTURE
FOR SIGNAL PROPAGATION
USING UNWRAPPED PHASE
Docket No.: 18102 (1314-03).
Confirmation No.:
Dated: December 9, 2003

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATION

37 C.F.R. §1.10

Express Mail Label No.: EV 413403724 US

Date of Deposit: December 9, 2003

Description of Contents: Postcard, \$1,244.00 Check, \$40.00 Check, Application Transmittal Letter, in duplicate, Application Data Sheet (1 pages), Specification (15 pages), including claims (7 pages) and abstract (1 page), drawings (10 sheets), executed Combined Declaration, Power of Attorney and Petition, Recordation Form Cover Sheet - Patents Only and executed Assignment.

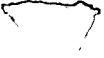
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to **Mail Stop Patent Application**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450



Customer No. 26794

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Frank Liu

For: APPARATUS, METHODS AND ARTICLES OF MANUFACTURE FOR SIGNAL PROPAGATION USING UNWRAPPED PHASE

Also enclosed are:

Application Data Sheet
 10 Sheets of drawings
 Information Disclosure Statement with Form PTO-1449 and copies of publications
 Recordation Form Cover Sheet - Patents Only and an Assignment of the invention to M/A-COM, Inc.
 Claim for Priority under 35 U.S.C. §119 with certified copy of _____
 Postcard and Express Mail Certification

The filing fee has been calculated as shown below:

	NO. OF CLAIMS FILED		NO. OF CLAIMS FROM BASIC FEE	NO. OF EXTRA CLAIMS
TOTAL	32	-	20 =	12
INDEP.	5	-	3 =	2
<u>First presentation of multiple dependent claim</u>				

OTHER THAN
SMALL ENTITY SMALL ENTITY

RATE	BASIC FEE \$385.
x 9=	\$
x43=	\$
+145=	\$

OR

RATE	BASIC FEE \$770.
x18=	\$216.00
x86=	\$258.00
+290=	\$0

TOTAL FEE \$ OR \$1,244.00

A check in the amount of \$1,244.00 is enclosed to cover the official filing fee for a large entity.

A check in the amount of \$ is enclosed to cover the official filing fee for a small entity.

A check in the amount of \$40.00 is enclosed to cover the recordal fee.

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In regard to this communication, the Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR §1.16 and any additional patent application processing fees under 37 CFR §1.17 or credit any overpayment to Deposit Account No. 50-2719. A duplicate copy of this sheet is enclosed.

During the pendency of this application, the Commissioner is hereby authorized to charge payment of any filing fees for presentation of extra claims under 37 CFR §1.16 and any patent application processing fees under 37 CFR §1.17 or credit any overpayment to Deposit Account No. 50-2719. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



Frank A. Cona, Reg. No. 38,412
Attorney for Applicant(s)